

## CLAIMS

1. A fat emulsion with which a local anaesthetic is mixed before use, and which comprises propofol, an oily component, and an emulsifier, the fat emulsion further comprising a stabilizer selected from the following (a), (b), (c), or (d):

(a) at least one phospholipid selected from the group consisting of phosphatidylglycerol, phosphatidic acid, phosphatidylinositol, and phosphatidylserine wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

(b) at least one phospholipid derivative selected from phosphatidylethanolamines modified with polyalkyleneglycol, wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

(c) at least one fatty acid selected from the group consisting of C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acids; or

(d) a mixture of at least two members selected from the above groups (a), (b), and (c), wherein

the stabilizer (a), (b), or (c) is present at a concentration of 0.01 to 1 w/v%, 0.01 to 1 w/v%, 0.05 to 5 w/v%, respectively, per the total amount of fat emulsion and local anaesthetic to be mixed therewith before use.

2. The fat emulsion according to Claim 1, wherein

(1) propofol is present at a concentration of 0.4 to 5 w/v%,

(2) an oily component is present at a concentration of 2 to 20 w/v%, and

(3) an emulsifier is present at a concentration of 0.4 to 5 w/v%, per the total amount of fat emulsion and local anaesthetic to be mixed therewith before use.

3. The fat emulsion according to Claim 1, wherein a local anaesthetic is at least one member selected from the group consisting of lidocaine, mepivacaine, bupivacaine, ropivacaine, dibucaine,

procaine, procaine chloride, tetracaine and pharmacologically acceptable acid addition salts thereof.

4. The fat emulsion according to Claim 1, wherein the local anaesthetic is present at a concentration of 0.01 to 1 w/v%, per the total amount of fat emulsion and local anaesthetic to be mixed therewith before use.

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995 1000 1005 1010 1015 1020 1025 1030 1035 1040 1045 1050 1055 1060 1065 1070 1075 1080 1085 1090 1095 1100 1105 1110 1115 1120 1125 1130 1135 1140 1145 1150 1155 1160 1165 1170 1175 1180 1185 1190 1195 1200 1205 1210 1215 1220 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before use.

9. The fat emulsion according to Claim 1, wherein the stabilizer is at least one phospholipid derivative (b) selected from phosphatidylethanolamines modified with polyalkyleneglycol, wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid.

10. The fat emulsion according to Claim 1, wherein the stabilizer is at least one phospholipid derivative (b) selected from phosphatidylethanolamines modified with polyalkyleneglycol having an average molecular weight of 1000 to 5000, wherein a fatty acid esterified to a glycerol moiety is a C<sub>14-18</sub> linear or branched, saturated or unsaturated fatty acid.

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11. The fat emulsion according to Claim 1, wherein the stabilizer is at least one phospholipid derivative (b) selected from the group consisting of distearoylphosphatidylethanamine-polyethylene glycol 5000, distearoylphosphatidylethanamine-polyethylene glycol 3000, and distearoylphosphatidylethanamine-polyethylene glycol 2000.

12. The fat emulsion according to Claim 9, wherein the stabilizer is present at a concentration of 0.1 to 1 w/v%, per the total amount of fat emulsion and local anaesthetic to be mixed therewith before use.

13. The fat emulsion according to Claim 1, wherein the stabilizer is at least one fatty acid (c) selected from the group consisting of C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acids.

14. The fat emulsion according to Claim 1, wherein the stabilizer is at least one fatty acid (c) selected from the group consisting of C<sub>10-20</sub> linear or branched, saturated or unsaturated

acids.

15. The fat emulsion according to Claim 1, wherein the stabilizer is at least one fatty acid (c) selected from the group consisting of decanoic acid, lauric acid, myristic acid, palmitic acid, stearic acid, arachidic acid, isomyristic acid, isopalmitic acid, and oleic acid.

10 16. The fat emulsion according to Claim 13, wherein the stabilizer is present at a concentration of 0.1 to 5 w/v%, per the total amount of fat emulsion and local anaesthetic to be mixed therewith before use.

15 17. A fat emulsion containing container having a multi-compartment that is divided with a partition in such a manner as to allow the compartments to communicate with one another, which container comprises one compartment containing the fat emulsion according to Claim 1 and another compartment containing a local anaesthetic.

20 18. A pain-relieving fat emulsion comprising propofol, an oily component, an emulsifier, a stabilizer, and a local anaesthetic, wherein the stabilizer is selected from the following (a), (b), (c), or (d):

25 (a) at least one phospholipid selected from the group consisting of phosphatidylglycerol, phosphatidic acid, phosphatidylinositol, and phosphatidylserine wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

30 (b) at least one phospholipid derivative selected from phosphatidylethanolamines modified with polyalkyleneglycol, wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

35 (c) at least one fatty acid selected from the group consisting of C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acids; or

(d) a mixture of at least two members selected from the above groups (a), (b), and (C), wherein

the stabilizer (a), (b), or (c) is present at a concentration of 0.01 to 1 w/v%, 0.01 to 1 w/v%, and 0.05 to 5 w/v%, respectively,  
5 in the fat emulsion.

19. The pain-relieving fat emulsion according to Claim 18, wherein

(1) propofol is present at a concentration of 0.4 to 5 w/v%,

10 (2) an oily component is present at a concentration of 2 to 20 w/v%,

(3) an emulsifier is present at a concentration of 0.4 to 5 w/v%, and

15 (4) a local anaesthetic is present at a concentration of 0.01 to 1 w/v%, in the fat emulsion.

20. The pain-relieving fat emulsion according to Claim 18, wherein a local anaesthetic is at least one member selected from the group consisting of lidocaine, mepivacaine, bupivacaine, ropivacaine, dibucaine, procaine, procaine chloride, tetracaine and pharmacologically acceptable acid addition salts thereof.

21. The pain-relieving fat emulsion according to Claim 18, wherein the stabilizer is at least one phospholipid (a) selected from the group consisting of phosphatidylglycerol, phosphatidic acid, phosphatidylinositol, and phosphatidylserine wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid.

30 22. The pain-relieving fat emulsion according to Claim 18, wherein the stabilizer is at least one phospholipid (a) selected from the group consisting of phosphatidylglycerol, phosphatidic acid, phosphatidylinositol, and phosphatidylserine wherein a fatty acid esterified to a glycerol moiety is a C<sub>12-18</sub> linear or branched, saturated or unsaturated fatty acid.  
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23. The pain-relieving fat emulsion according to Claim 18,  
wherein the stabilizer is at least one phospholipid (a) selected from  
the group consisting of distearoylphosphatidylglycerol, dipalmitoyl-  
5 phosphatidylglycerol, dioleoylphosphatidylglycerol, distearoyl-  
phosphatidic acid, dipalmitoylphosphatidic acid, dioleoyl-  
phosphatidic acid, distearoylphosphatidylinositol, dipalmitoyl-  
phosphatidylinositol, dioleoylphosphatidylinositol, distearoyl-  
phosphatidylserine, dipalmitoylphosphatidylserine, and dioleoyl-  
10 phosphatidylserine.

24. The pain-relieving fat emulsion according to Claim 21,  
wherein the stabilizer is present at a concentration of 0.03 to 1 w/v%  
in the fat emulsion.  
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25. The pain-relieving fat emulsion according to Claim 18,  
wherein the stabilizer is at least one phospholipid derivative (b)  
selected from phosphatidylethanolamines modified with polyalkylene-  
glycol, wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub>  
20 linear or branched, saturated or unsaturated fatty acid.

26. The pain-relieving fat emulsion according to Claim 18,  
wherein the stabilizer is at least one phospholipid derivative (b)  
selected from phosphatidylethanolamines modified with polyalkylene-  
25 glycol having the average molecular weight of 1000 to 5000, wherein  
a fatty acid esterified to a glycerol moiety is a C<sub>14-18</sub> linear or branched,  
saturated or unsaturated fatty acid.

27. The pain-relieving fat emulsion according to Claim 18,  
30 wherein the stabilizer is at least one phospholipid derivative (b)  
selected from the group consisting of  
distearoylphosphatidylethanolamine-polyethylene glycol 5000,  
distearoylphosphatidylethanolamine-polyethylene glycol 3000, and  
distearoylphosphatidylethanolamine-polyethylene glycol 2000.  
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28. The pain-relieving fat emulsion according to Claim 25, wherein the stabilizer is present at a concentration of 0.1 to 1 w/v% in the fat emulsion.

5 29. The pain-relieving fat emulsion according to Claim 18, wherein the stabilizer is at least one fatty acid (c) selected from the group consisting of C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acids.

10 30. The pain-relieving fat emulsion according to Claim 18, wherein the stabilizer is at least one fatty acid (c) selected from the group consisting of C<sub>10-20</sub> linear or branched, saturated or unsaturated fatty acids.

15 31. The pain-relieving fat emulsion according to Claim 18, wherein the stabilizer is at least one fatty acid (c) selected from the group consisting of oleic acid, isomyristic acid, isopalmitic acid, decanoic acid, lauric acid, myristic acid, palmitic acid, stearic acid, and arachidic acid.

20 32. The pain-relieving fat emulsion according to Claim 29, wherein the stabilizer is present at a concentration of 0.05 to 0.2 w/v% in the fat emulsion.

25 33. A method for manufacturing a pain-relieving fat emulsion, the method comprising:

mixing a local anaesthetic with a fat emulsion comprising propofol, an oily component, an emulsifier, and a stabilizer, wherein the stabilizer is selected from the following (a), (b), (c), or (d):

30 (a) at least one phospholipid selected from the group consisting of phosphatidylglycerol, phosphatidic acid, phosphatidylinositol, and phosphatidylserine wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

35 (b) at least one phospholipid derivative selected from

phosphatidylethanolamines modified with polyalkyleneglycol, wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

(c) at least one fatty acid selected from the group consisting of C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acids; or  
5 (d) a mixture of at least two members selected from the above groups (a), (b), and (c), to thereby obtain a fat emulsion, wherein the stabilizer (a), (b), or (c) is present at a concentration of 0.01 to 1 w/v%, 0.01 to 1 w/v%, and 0.05 to 5 w/v%, respectively,  
10 in the fat emulsion.

34. Use of the following stabilizers (a) to (d) for stabilizing a fat emulsion with which a local anaesthetic is mixed before use and which comprises propofol, an oily component, and an emulsifier, or a pain-relieving fat emulsion which comprises propofol, 15 an oily component, an emulsifier, and a local anaesthetic:

(a) at least one phospholipid selected from the group consisting of phosphatidylglycerol, phosphatidic acid, phosphatidylinositol, and phosphatidylserine wherein a fatty acid 20 esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acid;

(b) at least one phospholipid derivative selected from phosphatidylethanolamines modified with polyalkyleneglycol, wherein a fatty acid esterified to a glycerol moiety is a C<sub>10-22</sub> linear or branched, 25 saturated or unsaturated fatty acid;

(c) at least one fatty acid (c) selected from the group consisting of C<sub>10-22</sub> linear or branched, saturated or unsaturated fatty acids; or

(d) a mixture of at least two members selected from the above 30 groups (a), (b), and (c).